ZT-RPD-A03 Handheld Tag Reader

User Manual

Eye recorded

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一. Introduction

ZT-RPD-A03 is a low frequency tag reader that using wireless identification technology and it suppors reading EMID, FDX-B(ISO11784/85) etc. tag.

ZT-RPD-A03 using high brightness OLED display screen, and can be seen clearly inside the house or under the strong light outside. It can store up to 4000 tag information with its built-in memory, users can send the information to the computer through USB cable or wireless connection to manage data.

This product is stable and easy to use, it can be used for animal management, resource management, railway inspection etc..

二. Performance parameter

Performance parameters are shown in table 1.

Table 1 ZT-RPD-A03 performance parameter

Frequency	134.2Khz/125Khz
Tag format	EMID、FDX-B(ISO11784/85)
Reading/writing disatnce	2*12mm glass tag>15cm 30mm animal tag>25cm
Reading access time	<100ms
Signal indicator	128*64 high brightness OLED、buzzer
Power	4.5V(3 AA batteries)
Power consumption	Working:0.9W Standby:0.3W
Storage capacity	4000 information(tag coding+time)
Storage time	>20 years
communication port	USB2.0、2.4G wireless communication(optional)
Weight	300g (without battery)
Languaeg	English(Can be customized to your requirement)
Work temperature	-10℃～50℃
Storage temperature	-30℃～70℃

三. Function and operation introduction

1 Display screen introduction

The reader can display e-tag information, time, communication mode and storage mode simultaneously with a 128*64 high brightness OLED display. Display screen is shown as image 1.

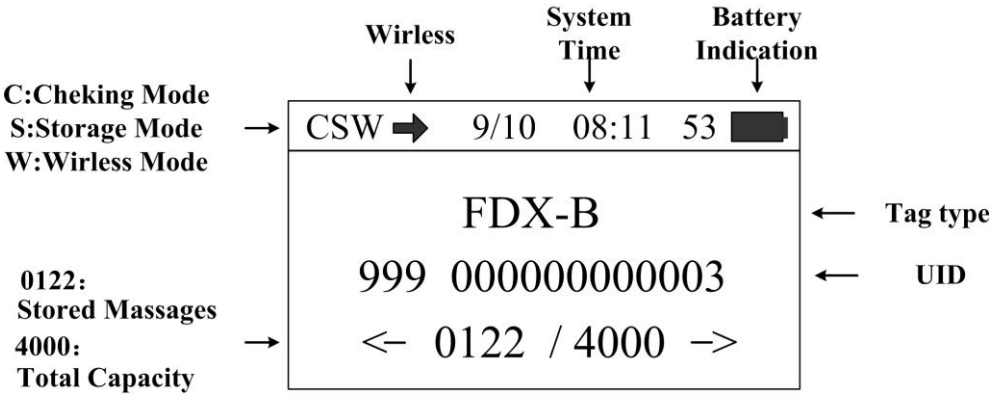

Image 1 Display screen

2 Basic operation

- Power on

Press and hold the "SCAN" key for 2 seconds in power off mode to power on and enter the main display screen.

- Scanning tag

Press "scan" key in main display screen, then the screen will display "scanning" and start scanning tag. The buzzer will ring once after reading the tag and the current tag information will appear on the screen at the same time. The buzzer will ring once and the screen will display "No tag found" if there's no tag information to be scaned in 10 seconds.

- Data viewing

Press '<' / '>' key in the main screen to view tag information and time.

- Turn off automatically

In power on mode, the system will enter standby mode automatically if there's no operation or data transmission within 30 seconds.

3 System setting

Press and hold "SCAN" key in power on mode to enter setting mode, the screen will be shown as below.

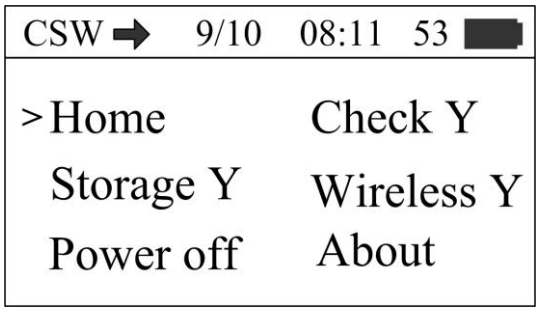

Image 2 Setting mode screen

In setting mode, press '<'/'>' key to select different function settings.

- Storage mode setting

"Storage" menu is used to select whether to store tag information, "Storage Y" is storage mode, "Storage N" is non-storage mode.

Press "SCAN" key to switch between "Storage Y" and "Storage N" when the cursor is moved to the "Storage" menu.

(Note:The reader will store tag information and operation time when the storage mode is set to "Storage Y", the reader will not store tag information and time if the storage mode is set to "Storage N".)

- Query mode

"Check" menu is used to set whether to compare the tag information that readed by the reader with the tag information stored in memory, "Check Y" is query mode, "Check N" is non-query mode.

Move the cursor to "Check" menu, press "SCAN" to switch between "Check Y" and "Check N".

(Note: The reader will compare the data after reading tag information when the query mode is set to "Check Y", the buzzer will ring twice if the current tag information has been stored, users can select whether to store current tag information by themselves. The reader will not compare the data when the query mode is set to "Check N".)

- Wireless data transmission setting

"Wireless" menu is used to set wireless data transmission function of this reader, "Wireless Y" means to turn on wireless data transmission function, "Wireless N" means turn off wireless data transmission function.

Move the cursor to "Wireless" menu, press "SCAN" key to switch "Wireless Y" and "Wireless N".

(Note: The reader will send the tag information to the receiver after reading it if the wireless communication mode is set to "Wireless Y", the reader will not send the tag information if the wireless communication is set to "Wireless N".)

- System time setting

ZT-RPD-A03 system time can be set by one key setting on computer, please refer to "Data transmission management".

- Viewing version information

"About" menu is used to view the reader's version information. Move the cursor to "About" menu, press "SCAN" key to display the reader's version and the the other information, press "SCAN" again to exit.

- Exiting setting mode

In setting mode, press "<"/ ">" key to move the cursor to "Home" menu, press "SCAN" key to exit setting mode.

四. Data transmission management

The information stored in RPD-A03 can be managed by sending them to computer through USB cable or wireless transmission.

- Data base management software

ZT-RPD-A03 has a USB2.0 port, you can check storage information, copy data, delete data and system time setting by data base management software after connecting the reader to your computer through USB cable.

Data base management software is shown as below:

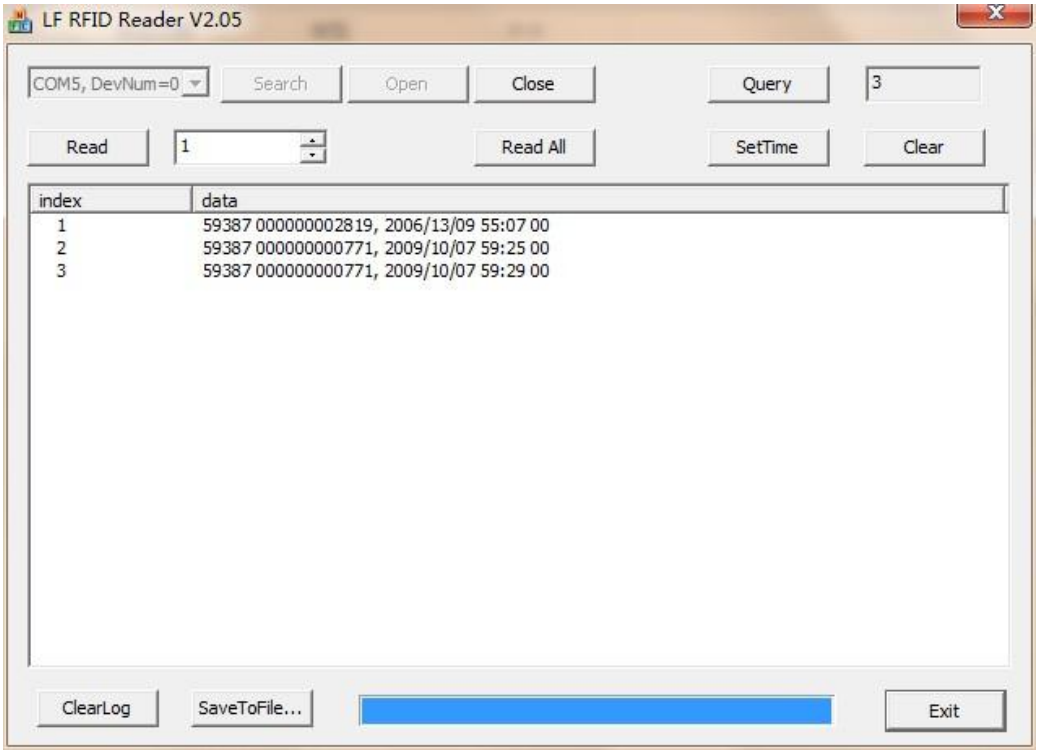

Image 3 Data base management software screen

Connecting the reader to your computer with a USB cable, then enabling the data base management software, if the function button on the software screen is turned gray to black (it means the system connection is succeed), you can proceed to the next step (you may need to install driver for the first time). The functions of the buttons are described as below:

Query： Get the amount of tag information stored in the reader.

Read： Read tag information in according to the setting amount.

Read All： Read all the information stored in the reader.

SetTime： Set system time of ZT-RPD-A03.

Clear： Clear tag information stored in ZT-RPD-A03(Note: The information cannot be recovered after deleting).

ClearLog： Clear the data in the textbox.

SaveToFile： Save the derived data to Excel table.

Exit： Disable software.

- Wireless data transmission function

ZT-RPD-A03 has a 2.4G wireless communication port, wireless data transmission port is USB HID keyboard mode and need not to install driver, the data transmitted through the reader can be displayed at the cursor location in word document / excel table, users can use this reader as

a data collector through this function.

Enable wireless transmission function in setting mode when using wireless transmission function, then plug the receiver terminal to the USB port of your computer and open a text file in the computer, the tag information will appear in the text when the reader scans it. Shown as image 4:

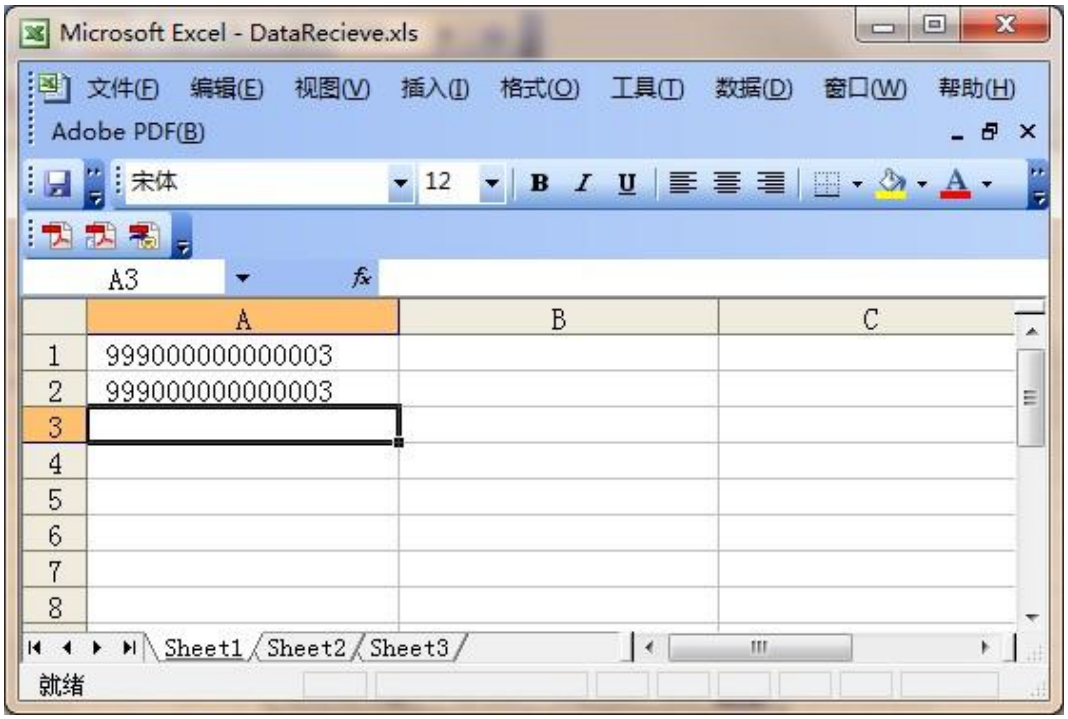

Image 4 Data display format

五. Attentions

1. This reader is electronic product, please transport and keep it as electrical equipment.
2. Avoid falling down from high places.
3. Do not expose this product to extreme temperatures, humidity or corrosive materials.
4. Unauthorized person can not open the casing.
5. Please use the provided data cable for connecting.
6. Try not to disassemble the battery cover frequently.
7. Please take out the battery if it has not being used for a long time to avoid damage to your product.

六. Package

Sereial number	Item
1	USB cable

2	Wireless data receiver(optional)
3	ZT-RPD-A03 portable reader user manual